

Application No. 09/975,873  
Amendment dated June 14, 2004  
Reply to Office Action dated March 3, 2004

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (previously amended): A medical device delivery system for therapeutically treating a patient, comprising:

an inner shaft, having proximal and distal ends;

a tubular outer sheath, at least a portion of which surrounds a portion of the inner shaft member;

a medical device within the outer sheath in an initial configuration;

a handle affixed to the inner shaft and operatively coupled with the outer sheath;

a first and second independently moveable actuator for adjusting the relative longitudinal positions of the inner shaft and the outer sheath, each of the first and second actuators providing a different amount of mechanical advantage between an input to one of the first and second actuators by a physician and a resulting relative longitudinal position of the inner shaft and the outer sheath respectively.

Claim 2 (original): The medical device delivery system of claim 1, wherein one of the first and second actuators provides a mechanical advantage of 1:1.

Application No. 09/975,873  
Amendment dated June 14, 2004  
Reply to Office Action dated March 3, 2004

**Claim 3 (original):** The medical device delivery system of claim 1, wherein the first actuator is adapted to rotate around a threaded base.

**Claim 4 (original):** The medical device delivery system of claim 1, wherein the second actuator is adapted to slide along a longitudinal slot defined by the handle.

**Claim 5 (original):** The medical device delivery system of claim 1, wherein one of the first and second actuators is formed as a lever.

**Claim 6 (original):** The medical device delivery system of claim 1, wherein the first actuator provides a mechanical advantage greater than 1:1, to facilitate an operator to overcome initial resistance to changing the initial relative position of the inner shaft and the outer sheath.

**Claim 7 (original):** The medical device delivery system of claim 1, wherein the handle and the first and second actuators can be operated by one hand.

**Claim 8 (previously amended):** A handle for manipulating a medical device delivery system for therapeutically treating a patient, comprising:

a housing;

inner and outer shaft members;

the inner shaft member being affixed to the housing;

the outer shaft member being movably coupled to the inner shaft member, such that the outer shaft member can be moved longitudinally with respect to the inner shaft member;

Application No. 09/975,873  
Amendment dated June 14, 2004  
Reply to Office Action dated March 3, 2004

first and second independent means for selectively moving the outer shaft member with respect to the inner shaft member;

the first means being adapted for precise and sensitive adjustment of the position of the outer shaft member, and the second means being adapted for rapid and relatively large-scale movement of the outer shaft member.

Claim 9 (previously added): The medical device delivery system of claim 1, further comprising a limit element limiting the extent of travel for the second actuator.

Claim 10 (previously added): The medical device delivery system of claim 9, wherein the limit element resists relative rotation between the inner shaft member and the tubular outer sheath.

Claim 11 (previously amended): A medical device delivery system for therapeutically treating a patient, comprising:

an inner shaft, having proximal and distal ends;

a tubular outer sheath, at least a portion of which surrounds a portion of the inner shaft member;

a medical device within the outer sheath in an initial configuration;

a handle affixed to the inner shaft and operatively coupled with the outer sheath;

Application No. 09/975,873  
Amendment dated June 14, 2004  
Reply to Office Action dated March 3, 2004

a first and second independently moveable actuator for adjusting the relative longitudinal positions of the inner shaft and the outer sheath, each of the first and second actuators providing a different amount of mechanical advantage between an input to one of the first and second actuators by a physician and a resulting relative longitudinal position of the inner shaft and the outer sheath respectively;

a limit element limiting the extent of travel for the second actuator, wherein the limit element resists relative rotation between the inner shaft member and the tubular outer sheath.